



>>Entry Name: Rubidium acetate (RbOAc)

Synonym(s): Acetic acid, rubidium salt, 8CI. Ethanoic acid, rubidium salt

CAS Registry Number: 563-67-7

RbOAc

Molecular Formula: $C_2H_3O_2Rb$

Molecular Weight: 144.512

Accurate Mass: 143.925099

Percentage Composition: C 16.62%; H 2.09%; O 22.14%; Rb 59.14%

Source/Synthesis: Prepd. by slow neutralisation of Rb_2CO_3 with HOAc in aq. soln.

Use/Importance: Commercially available

Physical Description: Hygroscopic, colourless monoclinic cryst.

Melting Point: Mp 246°

Solubility: V. sol. H_2O (86 g per 100 cm^3 at 45°; 89 g per 100 cm^3 at 99°)

Aldrich: 28930-2

References:

Gmelin Handbook Inorg. Chem., Syst. No. 24, 1955, 228, (rev, bibl)

Donaldson, J.D., *Spectrochim. Acta*, 1965, **21**, 275, (ir)

Hatibarua, J. *et al.*, *Acta Cryst. B*, 1972, **28**, 3099, (struct, polymorphs)